ELSEVIER

Computer Networks 34 (2000) 981–983

COMPUTER NETWORKS

www.elsevier.com/locate/comnet

Author Index Volume 34

Al-Fawzan, M.A. and **F. Hoymany,** Placement of network servers in a wide-area network (3) 355
Alheraish, A. and **D.G. Smith,** Cell rate moderation of VBR video under an FEC environment in ATM networks (1) 23
Allocchio, C., Guest editorial (6) 821
Asbery, J., *see* **Yuill, J.** (4) 671
Atiquzzaman, M., *see* **Saleh, M.** (2) 297
Atlasis, A.F., N.H. Loukas and **A.V. Vasilakos,** The use of learning algorithms in ATM networks call admission control problem: a methodology (3) 341
Awan, I.U., *see* **Kouvatsos, D.D.** (1) 97

Balaouras, P., I. Stavrakakis and **L. Merakos,** Potential and limitations of a teleteaching environment based on H.323 audio-visual communication systems (6) 945
Balestrieri, F., P.L. Panteli, V. Dionissopoulos and **T.G. Clarkson,** ATM connection admission control using pRAM based artificial neural networks (1) 49
Baltatu, M., A. Lioy, F. Maino and **D. Mazzocchi,** Security issues in control, management and routing protocols (6) 881
Banyasad, O., *see* **Hughes, L.** (3) 455
Bauer, D., *see* **Haas, R.** (3) 399
Becker, M. and **A.-L. Beylot,** Performance comparison criteria for ATM switch models (1) 85
Benzinger, L., *see* **Feiertag, R.** (4) 605
Beylot, A.-L., *see* **Becker, M.** (1) 85
Bhabuta, M.D.K. and **P.G. Harrison,** Optimising bandwidth of ABR sources (1) 115
Bissel, T., M. Bogen, C. Bonkowski and **V. Hadamschek,** Service level management with agent technology (6) 831
Bogen, M., *see* **Bissel, T.** (6) 831
Boiten, E., H. Bowman, J. Derrick, P. Linington and **M. Steen,** Viewpoint consistency in ODP (3) 503
Bonetti, P., S. Ravaioli and **S. Piergallini,** The Italian academic community's electronic voting system (6) 851
Bonkowski, C., *see* **Bissel, T.** (6) 831
Boudier, T. and **D.M. Shotton,** *VIDOS*, a system for video editing and format conversion over the Internet (6) 931
Bowman, H., *see* **Boiten, E.** (3) 503
Boyer, J., *see* **Guillemin, F.** (2) 263
Brusasco, G., *see* **Maggiore, G.** (5) 799

Casetti, C., R. Lo Cigno and **M. Mellia,** Load-balancing solutions for static routing schemes in ATM networks (1) 169
Chang, Y.-S., S.-M. Yuan and **W. Lo,** A new multi-search engine for querying data through an Internet search service on CORBA (3) 467
Christensen, M., *see* **Manganaris, S.** (4) 571
Clarkson, T.G., *see* **Balestrieri, F.** (1) 49
Cunningham, R.K., *see* **Lippmann, R.P.** (4) 597
Cuthbert, L.G., *see* **Denteneer, D.** (1) 211

Daoud, F., Hybrid satellite/terrestrial networks integration (5) 781
Das, K., *see* **Lippmann, R.** (4) 579
de Veciana, G., *see* **Montgomery, M.** (3) 379
Demartini, C., *see* **Raibulet, C.** (6) 823
Denteneer, D., V. Pronk, J.M. Griffiths and **L.G. Cuthbert,** Impact of the resource needed for renegotiating ATM rates (1) 211
Deri, L. and **S. Suin,** Practical network security: experiences with ntop (6) 873
Derrick, J., *see* **Boiten, E.** (3) 503
Dimakopoulos, G., *see* **Kouvatsos, D.D.** (1) 97
Dionissopoulos, V., *see* **Balestrieri, F.** (1) 49
Droz, P., *see* **Haas, R.** (3) 399
Dugeon, O., *see* **Guillemin, F.** (2) 263

Evangelatos, A., Th. Rapsomanikis, N. Mitrou and **G. Stassinopoulos,** A burst-level traffic analysis tool (1) 3

Feiertag, R., S. Rho, L. Benzinger, S. Wu, T. Redmond, C. Zhang, K. Levitt, D. Peticolas, M. Heckman, S. Staniford and **J. McAlerney,** Intrusion detection inter-component adaptive negotiation (4) 605

1389-1286/00/$ - see front matter © 2000 Published by Elsevier Science B.V. All rights reserved.
PII: S1389-1286(00)00176-6

Ferrari, T., End-to-end performance analysis with traffic aggregation (6) 905
Forno, R., *see* **Yuill, J.** (4) 671
Foster, I., *see* **Sander, V.** (6) 915
Fretwell, R.J., *see* **Kouvatsos, D.D.** (1) 97
Fried, D.J., *see* **Lippmann, R.** (4) 579
Frincke, D.A. and **M.-Y. Huang**, Recent advances in intrusion detection systems (Guest editorial) (4) 541

Ghribi, B. and **L. Logrippo**, Understanding GPRS: the GSM packet radio service (5) 763
Godlewski, P., *see* **Samou, J.C.** (5) 717
Gong, F., *see* **Yuill, J.** (4) 671
Griffiths, J.M., *see* **Denteneer, D.** (1) 211
Guillemin, F., O. Dugeon, J. Boyer and **C. Mangin**, Lightweight signaling in ATM networks for high quality transfer of Internet traffic (2) 263

Haas, R., P. Droz and **D. Bauer**, PNNI Augmented Routing (PAR) and Proxy-PAR (3) 399
Habra, S.K. and **A.E. Kamal**, An MCR-weighted protocol for multipoint-to-point communication over ABR service (3) 363
Hadamschek, V., *see* **Bissel, T.** (6) 831
Haines, J.W., *see* **Lippmann, R.** (4) 579
Harrison, P.G., *see* **Bhabuta, M.D.K.** (1) 115
Heckman, M., *see* **Feiertag, R.** (4) 605
Hermiz, K., *see* **Manganaris, S.** (4) 571
Herrmann, P. and **H. Krumm**, A framework for modeling transfer protocols (2) 317
Hoffmann, G., G-WiN – the Gbit/s infrastructure for the German scientific community (6) 959
Hommes, F., E. Pless and **L. Zier**, Did MPOA achieve its objective? (6) 895
Hou, Y.T., B. Li, S.S. Panwar and **H. Tzeng**, On network bandwidth allocation policies and feedback control algorithms for packet networks (3) 481
Houatra, D., *see* **Samou, J.C.** (5) 717
Hoymany, F., *see* **Al-Fawzan, M.A.** (3) 355
Huang, M., *see* **Yuill, J.** (4) 671
Huang, M.-Y., *see* **Frincke, D.A.** (4) 541
Hughes, E., *see* **Hughes, L.** (3) 455
Hughes, L., O. Banyasad and **E. Hughes**, Cartesian routing (3) 455
Hwang, R.-H., J.F. Kurose and **D. Towsley**, MDP routing for multi-rate loss networks (2) 241

Jie, S., *see* **Poon, S.M.** (2) 229
Jonsson, E., *see* **Lundin, E.** (4) 623

Kalvach, G., *see* **Van Do, T.** (1) 199
Kamal, A.E., *see* **Habra, S.K.** (3) 363
Kamoun, F., *see* **Lengliz, I.** (1) 129
Kapidakis, S., *see* **Karvounarakis, G.** (6) 861
Karvounarakis, G. and **S. Kapidakis**, Submission and repository management of digital libraries, using WWW (6) 861
Kato, N., *see* **Mansfield, G.** (4) 659
Korba, J., *see* **Lippmann, R.** (4) 579
Kouvatsos, D., Performance Modelling and Evaluation of ATM Networks (Foreword) (1) 1
Kouvatsos, D.D., I.U. Awan, R.J. Fretwell and **G. Dimakopoulos**, A cost-effective approximation for SRD traffic in arbitrary multi-buffered networks (1) 97
Krumm, H., *see* **Herrmann, P.** (2) 317
Kurose, J.F., *see* **Hwang, R.-H.** (2) 241

Lai, W.K. and **M.-R. Shiu**, Improving goodputs of IP packets under ATM UBR traffic with port-based queueing schemes (3) 419
Lee, B.S., *see* **Poon, S.M.** (2) 229
Lengliz, I. and **F. Kamoun**, A rate-based flow control method for ABR service in ATM networks (1) 129
Levitt, K., *see* **Feiertag, R.** (4) 605
Li, B., *see* **Hou, Y.T** (3) 481
Linington, P., *see* **Boiten, E.** (3) 503
Lioy, A., *see* **Baltatu, M.** (6) 881
Lippmann, R., J.W. Haines, D.J. Fried, J. Korba and **K. Das**, The 1999 DARPA off-line intrusion detection evaluation (4) 579
Lippmann, R.P. and **R.K. Cunningham**, Improving intrusion detection performance using keyword selection and neural networks (4) 597
Lo, W., *see* **Chang, Y.-S.** (3) 467
Lo Cigno, R., *see* **Casetti, C.** (1) 169
Logrippo, L., Future wireless networks (Editorial) (5) 701
Logrippo, L., *see* **Ghribi, B.** (5) 763
Lombardo, A., F. Lucidi, M. Samarotto and **S. Trigila**, Personal mobility aspects in service architectures: extensions to TINA (5) 745
Loukas, N.H., *see* **Atlasis, A.F.** (3) 341
Lucidi, F., *see* **Lombardo, A.** (5) 745
Lundin, E. and **E. Jonsson**, Anomaly-based intrusion detection: privacy concerns and other problems (4) 623

Maggiore, G., G. Brusasco and **M. Vecchiato**, Network integration testing: concepts, test specifications and tools for automatic telecommunication services verification (5) 799
Magi, Á., Á. Szentesi and **B. Szviatovszki**, Analysis of link cost functions for PNNI routing (1) 181
Maglaris, B., *see* **Stathis, C.** (1) 37
Maglianella, A., *see* **Milanovic, S.** (6) 965
Maino, F., *see* **Baltatu, M.** (6) 881
Mainwaring, K., A role for ATM in telephony and IP networks (3) 439
Manganaris, S., M. Christensen, D. Zerkle and **K. Hermiz**, A data mining analysis of RTID alarms (4) 571
Mangin, C., *see* **Guillemin, F.** (2) 263
Mansfield, G., K. Ohta, Y. Takei, N. Kato and **Y. Nemoto**, Towards trapping wily intruders in the large (4) 659

Marks, D., *see* **Mell, P.** (4) 641
Mazzocchi, D., *see* **Baltatu, M.** (6) 881
McAlerney, J., *see* **Feiertag, R.** (4) 605
McLarnon, M., *see* **Mell, P.** (4) 641
Mell, P., D. Marks and **M. McLarnon,** A denial-of-service resistant intrusion detection architecture (4) 641
Mellia, M., *see* **Casetti, C.** (1) 169
Merakos, L., *see* **Balaouras, P.** (6) 945
Milanovic, S. and **A. Maglianella,** ATM over ADSL probe in Telecom Italia environment (6) 965
Mitrou, N., *see* **Evangelatos, A.** (1) 3
Mitrou, N., *see* **Soldatos, J.** (1) 65
Montgomery, M. and **G. de Veciana,** Hierarchical source routing using implied costs (3) 379

Najm, E., *see* **Samou, J.C.** (5) 717
Naudts, J., Towards real-time measurement of traffic control parameters (1) 157
Nemoto, Y., *see* **Mansfield, G.** (4) 659
Nguyen, T.T., *see* **Van Do, T.** (1) 199

Ohta, K., *see* **Mansfield, G.** (4) 659
Ørbæk, P., An experimental system for distributed classroom education (6) 843

Panteli, P.L., *see* **Balestrieri, F.** (1) 49
Panwar, S.S., *see* **Hou, Y.T.** (3) 481
Peticolas, D., *see* **Feiertag, R.** (4) 605
Piergallini, S., *see* **Bonetti, P.** (6) 851
Pless, E., *see* **Hommes, F.** (6) 895
Poon, S.M., S. Jie, B.S. Lee and **C.K. Yeo,** Performance of buffer-based request-reply scheme for VoD streams over IP networks (2) 229
Pronk, V., *see* **Denteneer, D.** (1) 211

Raibulet, C. and **C. Demartini,** Mobile agent technology for the management of distributed systems – a case study (6) 823
Rapsomanikis, Th., *see* **Evangelatos, A.** (1) 3
Ravaioli, S., *see* **Bonetti, P.** (6) 851
Redmond, T., *see* **Feiertag, R.** (4) 605
Rho, S., *see* **Feiertag, R.** (4) 605
Rožić, N., *see* **Vojnović, M.** (1) 139
Roy, A., *see* **Sander, V.** (6) 915

Saleh, M. and **M. Atiquzzaman,** Analysis of shared buffer switches under non-uniform traffic pattern and global flow control (2) 297
Samarotto, M., *see* **Lombardo, A.** (5) 745
Samou, J.C., D. Houatra, P. Godlewski and **E. Najm,** IMT-2000 wireless terminal mobility over object-oriented distributed platforms (5) 717
Sander, V., I. Foster, A. Roy and **L. Winkler,** A differentiated services implementation for high-performance TCP flows (6) 915
Schmidts, H. and **J. Visser,** Framework for IMT-2000 networks (5) 705
Settle, J., *see* **Yuill, J.** (4) 671
Shiu, M.-R., *see* **Lai, W.K.** (3) 419
Shotton, D.M., *see* **Boudier, T.** (6) 931
Smith, D.G., *see* **Alheraish, A.** (1) 23
Soldatos, J., E. Vayias and **N. Mitrou,** CAC and traffic shaping for performance control in ATM: the two-class paradigm (1) 65
Song, S., A credit-based flow control algorithm for broadband access networks (2) 279
Spafford, E.H. and **D. Zamboni,** Intrusion detection using autonomous agents (4) 547
Staniford, S., *see* **Feiertag, R.** (4) 605
Stassinopoulos, G., *see* **Evangelatos, A.** (1) 3
Stathis, C. and **B. Maglaris,** Modelling the self-similar behaviour of network traffic (1) 37
Stavrakakis, I., *see* **Balaouras, P.** (6) 945
Steen, M., *see* **Boiten, E.** (3) 503
Suin, S., *see* **Deri, L.** (6) 873
Szentesi, Á., *see* **Magi, Á.** (1) 181
Szviatovszki, B., *see* **Magi, Á.** (1) 181

Takei, Y., *see* **Mansfield, G.** (4) 659
Towsley, D., *see* **Hwang, R.-H.** (2) 241
Tran, H.T., *see* **Van Do, T.** (1) 199
Trigila, S., *see* **Lombardo, A.** (5) 745
Tzeng, H., *see* **Hou, Y.T.** (3) 481

Van Do, T., T.T. Nguyen, H.T. Tran, G. Kalvach and **B. Varga,** Topology optimization of an overlay ATM network in an SDH infrastructure (1) 199
Varga, B., *see* **Van Do, T.** (1) 199
Vasilakos, A.V., *see* **Atlasis, A.F.** (3) 341
Vayias, E., *see* **Soldatos, J.** (1) 65
Vecchiato, M., *see* **Maggiore, G.** (5) 799
Visser, J., *see* **Logrippo, L.** (5) 701
Visser, J., *see* **Schmidts, H.** (5) 705
Vojnović, M. and **N. Rožić,** An evaluation of the ABR explicit-rate allocation interfering with the guaranteed services traffic (1) 139

Winkler, L., *see* **Sander, V.** (6) 915
Wu, F., *see* **Yuill, J.** (4) 671
Wu, S., *see* **Feiertag, R.** (4) 605

Yeo, C.K., *see* **Poon, S.M.** (2) 229
Yuan, S.-M., *see* **Chang, Y.-S.** (3) 467
Yuill, J., F. Wu, J. Settle, F. Gong, R. Forno, M. Huang and **J. Asbery,** Intrusion-detection for incident-response, using a military battlefield-intelligence process (4) 671

Zamboni, D., *see* **Spafford, E.H.** (4) 547
Zerkle, D., *see* **Manganaris, S.** (4) 571
Zhang, C., *see* **Feiertag, R.** (4) 605
Zier, L., *see* **Hommes, F.** (6) 895

ELSEVIER

Computer Networks 34 (2000) 984–986

COMPUTER NETWORKS

www.elsevier.com/locate/comnet

Subject Index Volume 34

ABR, 129, 363
Adaptive alarm filtering, 571
Adaptive routing, 379
Address resolution, 399
ADSL access network, 965
Agent technology, 831
Analytic models, 85
Anomaly detection, 623
Architectures, 781
Asynchronous transfer mode, 139
Asynchronous transfer mode (ATM), 97
ATM, 23, 49, 65, 85, 129, 181, 199, 263, 341, 355, 363, 419, 439, 481, 799, 895
ATM and Point-to-Point connection services, 959
ATM traffic, 3
ATM/ADSL integration, 965
Attack, 579, 597
Audit, 579
Authentication, 881
Automatic configuration, 399
Available bit rate, 139, 481

Bandwidth allocation, 115
Bandwidth broker, 915
B-ISDN traffic, 115
Broadband access networks, 279
Buffer allocation, 419
Burst analysis, 3
Burstiness constraint, 157
Burst-level traffic control, 65
Bursty traffic, 3, 85
Business model, 745

CAC, 37, 49, 65
Call admission control, 341
Capability Set 1 network and service capabilities, 705
Charging for ATM, 211
Computer security, 641, 671
Congestion and flow control, 481
Congestion avoidance, 139
Connectionless servers, 355
Context-sensitive anomaly detection, 571
Continuous simulation, 115
CORBA, 467
Correlated arrivals, 97
Cryptography, 851

Data mining, 571
DAVIC, 229
Denial of service, 641, 881
Departures first (DF) buffer management simultaneity policy, 97
Differentiated services, 905, 915
Digital libraries, 861
Digital video customization, 931
Discrete-time domain, 97
Distributed IDS, 659
Distributed systems, 547, 605, 823
Dynamic routing, 181

Early packet discarding, 419
Economics of crime, 671
Electronic voting system, 851
Empirical envelope, 157
End-to-end, 799
End-to-end performance, 905
Equivalent bandwidth, 341
Evaluate, 579
Explicit rate, 481
Explicit-rate scheme, 139

Family of Systems concept, 705
Feedback, 481
Finite capacity queues, 85
First-come-first-served (FCFS) service policy, 97
Floor arbitration, 843
Flow control, 129
Flow control algorithm, 279
Formal methods, 503
Forward error correction, 23
FR, 799
Framework, 317

Generic cell rate algorithm, 23, 157
Geographic addressing, 455

1389-1286/00/$ - see front matter © 2000 Published by Elsevier Science B.V. All rights reserved.
PII: S1389-1286(00)00177-8

Gigabit networks, 959
Goodput, 419
GPRS, 763
GSM, 763, 799

H.323, 945
Heuristic algorithm, 199
Hierarchical source routing, 379
High-speed networks, 97

Implied costs, 379
IMT-2000 framework, 705
IMT-2000 interfaces, 705
IMT-2000 system, 717
Incident response, 671
Information repository, 823
Integration, 781
Interconnection networks, 85
Interface agents, 831
Internet, 467, 965
Intruder tracking, 659
Intrusion detection, 547, 571, 579, 597, 605, 623, 641, 659, 671, 873
IP, 419, 439
IP (packet over SDH), 959
IP based teleteaching, 945
IP security, 881
IP/ATM integration, 399
IPv6, 455
ISDN, 799
Italian universities, 851
ITU-T Recommendation Q.1701, 705

Java programming, 931

Keyword, 597

Learning automaton, 341
Library administration, 861
Lightweight signaling, 263
Load balancing and ATM networks, 169
Long-range dependence, 37
Long-range dependency, 139
Loss networks, 241
LOTOS, 503

Markov chains, 297
Markov decision process, 241
Max-min, 481
Media gateway control, 439
Metadata submission, 861
Military intelligence, 671
Minimum rate, 481
Mobile agents, 641, 823
Mobile data communications, 763
Mobile distributed object services, 717
Mobile telephony, 763
Modeling techniques, 297
MPEG, 23
MPLS, 263, 895
MPOA, 895
Multicast, 843
Multipoint conferences, 945
Multipoint-to-point, 363
Multi-rate traffic, 241
Multi-search service, 467

Negotiation protocol, 605
Networks, 597, 781
Network aggregation, 379
Network calculus, 157
Network IDS, 659
Network Integration Testing, 799
Network optimization, 199
Network security, 605, 873
Neural net, 597
Neural networks, 49
Node-to-node, 799

Object-Z, 503
On-board processing, 781
On-line video editing, 931
Open Distributed Processing, 503

Packet network, 481
Packet radio, 763
Peak rate, 481
Performance analysis, 297
Performance evaluation, 85, 129
Performance measurement, 905
Perl, 547
Personal mobility, 745
PNNI, 181
PNNI augmented routing, 399
pRAM, 49
Privacy, 623
Protocol composition, 317
Protocol specification, 317
Protocol verification, 317
Pseudonymization, 623
Public key infrastructure, 881

QoS, 65
Quality of service, 23, 263, 341, 439, 905, 915, 965
Quality of service (QoS), 831
Queueing network models (qnms), 97

Rate allocation policy, 481
Renegotiation, 211
Repetitive service blocking with random destination (RS-RD), 97

Repository management, 861
Residential broadband, 965
Residential gateway, 279
Retailer Federation, 745
Revenue sensitivities, 379
Routing, 169, 241, 455, 895
Routing security, 881
RQRP protocols, 229

Satellite, 781
SDH, 199
SDH/WDM technology, 959
Search engine, 467
Security, 547, 851
Security architecture, 641
Self-similarity, 37
Sensor profiling, 571
Server placement, 355
Service architecture, 745
Service discovery, 399
Service level agreement (SLA), 836
Service level management (SLM), 831
Shaping, 65
Shared buffer switches, 297
Short range dependence (SRD), 97
Simulation, 129, 181
Smartcard, 851
SNMP-based IDS, 659
Software agents, 547, 831
Statistical multiplexing, 3
Switches, 85
Switching, 895
Synchronous, 945
System technical management, 823

Tabu search, 355
TCP, 263
TCP/IP, 873
Technical implementation of the network, 959
Telecommunications, 763
Telephony, 439
Teleteaching environment, 945
Temporal logic, 317
Terminal provider, 745
Terrestrial, 781
Test bed, 579
Test tools, 3
Testing, 799
TINA service framework, 717
Traffic aggregation, 905
Traffic control, 157
Traffic forecast, 959
Traffic management, 363
Traffic measurements, 37
Traffic modelling, 37
Traffic monitoring, 873
Transient analysis, 115
Transmission control protocol, 915
Trunking, 439

Unspecified bit rate, 419

Video compression, 843
Video conferencing, 843
Video download specification, 931
Video format conversion, 931
Video-on-demand, 229
Viewpoint consistency, 503

Wide-area network, 355
Wireless terminal mobility model, 717
World Wide Web, 467